

ABSTRACT

A check valve for a diesel engine comprises a pipe formed with an oil inlet and oil outlet. A piston is slidably installed in the pipe and a spring pressures the piston toward the oil inlet side for closing an oil passage connecting the oil inlet and oil outlet.

- 5 The spring is an asymmetric compression spring, which allows the compression length change of the spring to be relatively large at low oil pressure and slight at high oil pressure. Thereby, relatively increasing the oil jet change amount when the rpm of the diesel engine is low and decreasing the oil jet change amount when the rpm of the diesel engine is high. Thus reducing frictional loss of the engine oil pump and improving the
- 10 fuel consumption rate.